

Judul Artikel: Pharmacokinetic aspect of Carica papaya leaf extract after oral administration, Penulis: W H Nugrahaningsih\* , N Paramitha, L Lisdiana and Ely Rudyatmi, Nama Seminar/Konferensi/Simposium: 3rd Annual Applied Science and Engineering Conference (AASEC 2018) , Penyelenggara Seminar/Konferensi/Simposium: Universitas Pendidikan Indonesia, Waktu Pelaksanaan Seminar/Konferensi/Simposium: 18 April 2018, ISBN/ISSN: 17578981, 1757899X

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Kenaikan Jabatan Fungsional

Artikel berjudul Pharmacokinetic aspect of Carica papaya leaf extract after oral administration merupakan bagian dari penelitian Preclinical Trial ekstrak Daun Singkong dan Daun Pepaya Sebagai Antihipotensi Kategori Obat Herbal Terstandar. Berikut kami lampirkan sertifikat pembicara, ethical approval dan bukti korespondensi artikel.



Ethical approval Penelitian



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FAKULTAS ILMU KEOLAHRAGAAN  
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**ETHICAL CLEARANCE**  
Nomor: 049/KEPK/EC/2018

Komisi Etik Penelitian Kesehatan Universitas Negeri Semarang, setelah membaca dan menelaah usulan penelitian dengan judul :

Preclinical Trial Ekstrak Daun Singkong dan Daun Pepaya sebagai Antihipotensi Kategori Obat Herbal Terstandar

Nama Peneliti Utama : Dr.dr. Nugrahaningsih WH, M.Kes  
Alamat Institusi Peneliti : Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Negeri Semarang  
Lokasi Penelitian : Laboratorium Biologi UNNES, Laboratorium Teknik Pangan UNIKA Soegijapranata, Laboratorium Farmasi UNWAHAS, dan Laboratorium Kesehatan Hewan Semarang.  
Tanggal Persetujuan : 11 April 2018  
(bertaku 1 tahun setelah tanggal persetujuan)

menyatakan bahwa penelitian di atas telah memenuhi prinsip-prinsip yang dinyatakan dalam Standards and Operational Guidance for Ethics Review of Health-Related Research with Human Participants dari WHO 2011 dan International Ethical Guidelines for Health-related Research Involving Humans dari CIOMS dan WHO 2016. Oleh karena itu, penelitian di atas dapat dilaksanakan dengan selalu memperhatikan prinsip-prinsip tersebut.

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Semarang, 11 April 2018  
Ketua,

Prof. Dr. dr. Oktia Woro K.H., M.Kes.  
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## Korespondensi

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**Pharmacokinetic aspect of Carica papaya leaf extract after oral administration**  
*Nugrahaningsih WH, Noorma Paramitha, Lisdiana, Ely Rudyatmi*  
Biology Department, Universitas Negeri Semarang

**Abstract**

Background: The pharmacokinetic data were needed to determine the dose and frequent of drug. Carica papaya leaves have potency to develop a new herbal medicine. The research aimed to explore the excretion rate of oral administration of Carica papaya leaf extract.  
Methods: The time series experimental was conducted to six male and health rats (*Rattus norvegicus*). Single dose (900 mg) of Carica papaya leaf extract was given orally. Urines were collected in range 0 to 6 hr, 6 to 12 hr, 12 to 24 hr and 24 to 48 hr after oral administration. The levels of flavonoids urine were measured by HPLC UV VIS column C18. The standard solution of flavonoid was Rutin.

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Result: Flavonoids level detected in range 0 to 6 hr were 0.0721\pm 0.03422 mg/mL. The level of flavonoid increased in 6 to 12 hr (0.0722 \pm 0.02976 mg/mL), 12 to 24 hr (0.1306 \pm 0.06477 mg/mL) and 24 to 48 hr (0.1800 \pm 0.0741 mg/mL). The excretion rate in range 0 to 6 hr was 0.02662 mg/hr, 6 to 12 hr was 0.02888 mg/hr, 12 to 24 hr was 0.03428 mg/hr and 24 to 48 hr was 0.03574 mg/hr. Total flavonoid have been excreted in 48 hour was 4.73 %.

Conclusion: Carica papaya leaf extract was excreted in 6 hr after oral administration and need more than 48 hr to clear all flavonoid from plasma

**Keywords:** Carica papaya, pharmacokinetic, excretion rate, herbal medicine

**Topic:** AS-07 Pharmacology

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<b>Pharmacokinetic aspect of Carica papaya leaf extract after oral administration</b> <i>Nugrahaningsih WH, Noorma Paramitha, Lisdiana, Ely Rudyatmi</i> Biology Department, Universitas Negeri Semarang		
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Email: [aasec@upi.edu](mailto:aasec@upi.edu)

Date: 5 April 2018

## Letter of Acceptance

Dear Authors: Nugrahaningsih WH, Noorma Paramitha, Lisdiana, Ely Rudyatmi

We are pleased to inform you that your abstract (ABS-192, Oral Presentation), entitled:

**"Pharmacokinetic aspect of Carica papaya leaf extract after oral administration"**

has been reviewed and accepted to be presented at AASEC 2018 conference to be held on 18 April 2018 in Bandung, Indonesia.

Please submit your full paper and make the payment for registration fee before the deadlines, visit our website for more information.

Thank You.

Best regards,

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Dr. Ade Gafar Abdullah  
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The 3rd Annual Applied Science and Engineering Conference  
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Date: 10 April 2018

## Letter of Invitation

Dear Authors: Nugrahaningsih WH, Noorma Paramitha, Lisdiana, Ely Rudyatmi

We are pleased to inform you that your abstract (ABS-192, Oral Presentation), entitled:

**"Pharmacokinetic aspect of Carica papaya leaf extract after oral administration"**

has been reviewed and accepted to be presented at AASEC 2018 conference to be held on 18 April 2018 in Bandung, Indonesia.

We cordially invite you to attend our conference and present your research described in the abstract.

Please submit your full paper and make the payment for registration fee before the deadlines, visit our website for more information.

Thank You.

Best regards,

A handwritten signature in black ink, appearing to be 'Ade Gafar Abdullah'.

Dr. Ade Gafar Abdullah  
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<p align="center"><b>Pharmacokinetic aspect of Carica papaya leaf extract after oral administration</b>  <i>Nugrahaningsih WH, Noorma Paramitha, Lisdlana, Ely Rudyatmi</i>                      Biology Department, Universitas Negeri Semarang</p> <p align="center"><b>Abstract</b></p> <p>Background: The pharmacokinetic data were needed to determine the dose and frequent of drug. Carica papaya leaves have potency to develop a new herbal medicine. The research aimed to explore the excretion rate of oral administration of Carica papaya leaf extract.</p> <p>Methods: The time series experimental was conducted to six male and health rats (<i>Rattus norvegicus</i>). Single dose (900 mg) of Carica papaya leaf extract was given orally. Urines were collected in range 0 to 6 hr, 6 to 12 hr, 12 to 24 hr and 24 to 48 hr after oral administration. The levels of flavonoids urine were measured by HPLC UV VIS column C18. The standard solution of flavonoid was Rutin.</p> <p>Result: Flavonoids level detected in range 0 to 6 hr were 0.0721 <math>\mu</math>m 0.03422 mg/mL. The level of flavonoid increased in 6 to 12 hr (0.0722 <math>\mu</math>m 0.02976 mg/mL), 12 to 24 hr (0.1306 <math>\mu</math>m 0.06477 mg/mL) and 24 to 48 hr (0.1800 <math>\mu</math>m 0.0741 mg/mL). The excretion rate in range 0 to 6 hr was 0.02662 mg/hr, 6 to 12 hr was 0.02888 mg/hr, 12 to 24 hr was 0.03428 mg/hr and 24 to 48 hr was 0.03574 mg/hr. Total flavonoid have been excreted in 48 hour was 4.73 %.</p> <p>Conclusion: Carica papaya leaf extract was excreted in 6 hr after oral administration and need more than 48 hr to clear all flavonoid from plasma</p> <p><b>Keywords:</b> Carica papaya, pharmacokinetic, excretion rate, herbal medicine</p> <p><a href="#">PermaLink</a>   <a href="#">Plain Format</a>   <a href="#">Corresponding Author (Nugrahaningsih WH)</a></p>		

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